



Evaluation Report for Category B, Subcategory 4.6 Application

Application Number: 2018-0698
Application: Fulfillment conditions of registration
Product: Bardac 2080 Technical
Registration Number: 21897
Active ingredients (a.i.): didecyl dimethyl ammonium chloride, dioctyl dimethyl ammonium chloride, octyl decyl dimethyl ammonium chloride
PMRA Document Number: 2920495

Background

In 2014, the registration of this product was renewed with the condition that chemistry information be provided.

Purpose of Application

The purpose of this application was to meet the continued registration conditions placed on Bardac 2080 Technical as part of the renewal process.

Chemistry Assessment

Common Names: octyl decyl dimethyl ammonium chloride
didecyl dimethyl ammonium chloride
dioctyl dimethyl ammonium chloride
IUPAC* Chemical Names: octyl decyl dimethyl ammonium chloride
didecyl dimethyl ammonium chloride
dioctyl dimethyl ammonium chloride
CAS† Chemical Names: 1-decanaminium, N,N-dimethyl-N-octyl-, chloride (1:1)
1-decanaminium, N-decyl-N,N-dimethyl-, chloride (1:1)
1-octanaminium, N,N-dimethyl-N-octyl-, chloride (1:1)

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Bardac 2080 Technical has the following properties:

Property	Result
Colour and physical state	Clear pale yellow to straw liquid
Nominal concentration	octyl decyl dimethyl ammonium chloride ... 40.0% dioctyl dimethyl ammonium chloride ... 15.0% didecyl dimethyl ammonium chloride ... 26.0%
Odour	mild
Density	0.892 g/mL (at 20°C)
pH	6.5 – 9.0
Solubility in water	Miscible
n-Octanol/water partition coefficient	octyl decyl dimethyl ammonium chloride: 1.54 dioctyl dimethyl ammonium chloride: 0.28 didecyl dimethyl ammonium chloride: 2.56

The required chemistry data for Bardac 2080 Technical have been provided, reviewed, and found to be acceptable.

Health Environmental and Value Assessments

Health, environmental and value assessments were not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to continue to support the registration of the Bardac 2080 Technical. The conditions have been fulfilled.

References

List of Studies/Information Submitted by Registrant

PMRA Document Number	Reference
2852394	2016, Manufacturing Summary, DACO: 2.11.1,2.11.2,2.11.3 CBI
2852395	2016, Manufacturing Summary, DACO: 2.11.1,2.11.2,2.11.3 CBI
2852396	2012, Establishing Certified Limits, DACO: 2.11.4,2.12.1,2.13.1,2.13.2,2.13.3 CBI

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